



March 10, 2016

Tom Moe USS Corporation P.O. Box 417 Mountain Iron, MN 55768

RE: Project: NPDES-TB Wk1 Pace Project No.: 1261857

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melisa M Woods

Mazzi Wirds

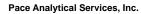
melisa.woods@pacelabs.com

Project Manager

Enclosures

cc: Terri Sabetti, NTS





Pace Analytical www.pacelabs.com

315 Chestnut Street Virginia, MN 55792 (218) 742-1042

CERTIFICATIONS

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792 Alaska Certification #MN01084 Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470 WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

Oklahoma Department of Environmental Quality

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 027-137-152

Wisconsin DNR Certification #: 999446800

North Dakota Certification #: R-105





SAMPLE SUMMARY

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1261857001	SD 001 (Seep 020)	Water	03/02/16 11:30	03/02/16 14:20





SAMPLE ANALYTE COUNT

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1261857001	SD 001 (Seep 020)	EPA 1664 TPH	BT1	1	PASI-DUL
		USGS I-3765	BEM	1	PASI-V
		EPA 300.0	DMB	1	PASI-V



ANALYTICAL RESULTS

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Date: 03/10/2016 02:30 PM

Sample: SD 001 (Seep 020)	Lab ID: 1261857001		Collected: 03/02/16 11:30		Received: 03/02/16 14:20 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical	Method: EPA	1664 TPH						
Total Petroleum Hydrocarbons	ND	mg/L	3.0	0.90	1		03/07/16 16:40		
USGS I-3765 TSS	Analytical	Method: USG	S I-3765						
Total Suspended Solids	2.4	mg/L	1.0	1.0	1.0 1 03/07/16 09:36				
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	1000	mg/L	20.0	0.89	10		03/04/16 09:59	14808-79-8	



QUALITY CONTROL DATA

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Associated Lab Samples:

Date: 03/10/2016 02:30 PM

QC Batch: DUL/5309

QC Batch Method: **EPA 1664 TPH** Analysis Method: Analysis Description: **EPA 1664 TPH**

1664 SGT-HEM, TPH

METHOD BLANK: 294390

1261857001

Associated Lab Samples: 1261857001

Blank Reporting

MDL Parameter Units Result Limit Qualifiers Analyzed

Matrix: Water

Total Petroleum Hydrocarbons ND 3.0 0.90 03/07/16 15:30 mg/L

LABORATORY CONTROL SAMPLE: 294391

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 72 Total Petroleum Hydrocarbons mg/L 20 14.5 64-132

MATRIX SPIKE SAMPLE: 294392

MS 1261956001 Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers < 0.92 14.7 64-132 Total Petroleum Hydrocarbons 20 72 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: NPDES-TB Wk1

Pace Project No.: 1261857

QC Batch: WET/22820 Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1261857001

METHOD BLANK: 294230 Matrix: Water

Associated Lab Samples: 1261857001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 03/07/16 09:35

LABORATORY CONTROL SAMPLE: 294231

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 210 88 80-120

SAMPLE DUPLICATE: 294232

1261911002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 196 200 2 10 **Total Suspended Solids** mg/L

SAMPLE DUPLICATE: 294233

Date: 03/10/2016 02:30 PM

1261922002 Dup Max RPD RPD Parameter Units Result Result Qualifiers 252 Total Suspended Solids mg/L 272 8 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project:

NPDES-TB Wk1

Pace Project No.:

1261857

QC Batch: QC Batch Method:

Sulfate

Sulfate

Sulfate

WETA/15890

EPA 300.0

Analysis Method:

EPA 300.0

Analysis Description:

ND

300.0 IC Anions

Associated Lab Samples: 1261857001

293803 METHOD BLANK:

Matrix: Water

Associated Lab Samples:

1261857001

Blank

Reporting

2.0

Parameter

Result

Limit

47.8

MDL

0.089

Analyzed 03/04/16 08:37 Qualifiers

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Date: 03/10/2016 02:30 PM

293804

Units

mg/L

Units

mg/L

Units

mg/L

Spike Conc.

50

LCS Result

LCS % Rec % Rec Limits

MS

% Rec

Qualifiers

293805

293806

MS

MSD

96

MSD

90-110

% Rec Limits

Max RPD RPD

93

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

MSD 1261917001 Spike Spike Result Conc. Conc. 10.4 100

MS Result 100

103

Result 104

% Rec 93

90-110

20

Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NPDES-TB Wk1
Pace Project No.: 1261857

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 03/10/2016 02:30 PM

PASI-DUL Pace Analytical Services - Duluth
PASI-V Pace Analytical Services - Virginia



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NPDES-TB Wk1

Pace Project No.: 1261857

Date: 03/10/2016 02:30 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1261857001	SD 001 (Seep 020)	EPA 1664 TPH	DUL/5309		
1261857001	SD 001 (Seep 020)	USGS I-3765	WET/22820		
1261857001	SD 001 (Seep 020)	EPA 300.0	WETA/15890)	

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ddress: Required Client Information: At. Iron, MN 55768 ompany. ITEM# equested Due Date: SD 001 (Seep 020) **USS Corporation** P.O. Box 417 Sample Ids must be unique One Character per box. (A-Z, 0-9/, -) **SAMPLE ID** Ä MATHIX
Drinking Water
Water
Waste Water
Product
Soll/Solid
Oil
Wipe
Air
Other Capy To: Report To: Tom Moe Required Project Information: Project #: Project Name: Purchase Order #: ᄚᄰᇎᄣᇸᇰᅓᇎᇎᄧ MATRIX CODE (see valid codes to left) ₹ General SAMPLE TYPE (G=GRAB C=COMP) NPDES-TB Wk1 3-216/11/20 3-21/11/30 START Ħ H COLLECTED SIGNATURE of SAMPLER: PRINT Name of SAMPLER: DATE 8 3-276 TIME SAMPLE TEMP AT COLLECTION 51, H/ Address: Invoice Information: # OF CONTAINERS Pace Profile #: Pace Quote: Attention: Pace Project Manager: Company Name: faughrest la Unpreserved H2SO4 and prosent HNO3 HCI NaOH Na2S2O3 heather.ziko Methanol Other CELENT: USS CORP W0#::1261857 Analys gareta TSS,SO4 DATE Signed: TRPH 1664 Due Date: 03/16/16 3-24/1420 Page : Q Z TEMP in C Residual Chlorine (Y/N Received on lce (Y/N) Custody Sealed Cooler ð (Y/N) Samples intact (Y/N)

Pace Analytical*

Document Name: Sample Condition Upon Receipt Form

Document No.: F-VM-C-001-Rev.09

Document Revised: 23Feb2015

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Issuing Authority:
Pace Virginia, Minnesota Quality Office

Sample Condition Upon Receipt	Client Name:	155		Project	L
Courier:	Fed Ex UPS	USPS		Client	1261857
Tracking Number:		E_JOTHEL.			719 m
Custody Seal on Coo	ler/Box Present?	Zho	Seals I	ntact? {	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material:		° Bags ∐No	one [_ _ Other:	Temp Blank? ✓ Yes No
hermometer Used:					Blue None Samples on ice, cooling process has begun
Cooler Temp Read *	C: 0, 0 Cooler Temp	Corrected *0	2:	0.3	Biological Tissue Frozen? Yes No NA
Chain of Custody Pre	sent?	✓Yes	□No	□N/A	1.
Chain of Custody Fille	ed Out?	Z Yes	□No	□n/a	2.
Chain of Custody Reli	inquished?	∑ Yes	□No	N/A	3.
Sampler Name and S	ignature on COC?	☑ Yes	□No	N/a	4.
Samples Arrived with	in Hold Time?	Z Yes .	□No	N/A	S
Short Hold Time Ana	lysis (<72 hr)?	Yes	ØNo	□n/a	6.
Rush Turn Around Ti	me Requested?	□Yes	ZNo	□N/A	7.
Sufficient Volume?		Yes	□No	□N/A	8.
Correct Containers U	sed?	į́ZYes	□No	□n/a	9.
-Pace Containers U	Jsed?	Yes	□No	□N/A	
Containers Intact?		Yes	□No	N/A	10.
Filtered Volume Rece	ived for Dissolved Tests?	Yes	□No	ØN/A∙	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match	COC3	ZYes	□No	□n/a	12.
-Includes Date/Tim	ne/ID/Analysis Matrix: 🔻 🛴	5 T		•	
All containers needing checked and docume	g acid/base preservation will be nted in the pH logbook.	□Yes	□ио	ZÎN/A	See pH log for results and additional preservation documentation
Headspace in Methyl	Mercury Container	Yes	□No	Øn/a	13.
Headspace in VOA Via	ols (>6mm)?	Yes	□No	ZN/A	14.
Trip Blank Present?		Yes	□No	D)N/A	15.
Trip Blank Custody Se		Yes	□No	Ď n/a	
Pace Trip Blank Lot # (if purchased):		······································		
CLIENT NOTIFICATION	I/RESOLUTION				Field Data Required? Yes No
· Person Co	ontacted:				Date/Time:
Comments/Re					
·····	· · ·				
			·		
FECAL WAIVER ON	IFILE Y N	? . <i></i> .	TEM	PERATUI	RE WAIVER ON FILE Y N
Project Manager Revious Project Manager Revious Rote: Whenever there is a hold, incorrect preservative	ew: discrepancy affecting North Caroline, out of temp, incorrect containers	na compliance	samples,	a copy of th	Date: 3/24/6 Date: Out of the North Carolina DEHNR Certification Office (I.e. out of